

# **METHOD AND APPARATUS FOR GENERATING A DISTORTIONLESS PULSE WIDTH MODULATED WAVEFORM**

## **Abstract of the Disclosure**

5 A technique to provide a distortionless and predictable real-time PWM waveform based on a sequence of combinations of programmed period and width values received from a processor. In one example embodiment, this is accomplished by using two sets of registers to store the period and width values and a tertiary period register to further store the period value with their associated timing controls to provide the predictable real-time PWM waveform.

10